Refine Search

Search Results -

Terms	Documents
L1 and (bandwidth or (band adj1 width))	10

Database:
- US Pre-Grant Publication Full-Text Database
- US Patents Full-Text Database
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- EPO Abstracts Database
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- IBM Technical Disclosure Bulletins

Search:
L2

[Refine Search]

[Recall Text]   [Clear]   [Interrupt]

Search History

DATE: Thursday, January 04, 2007   **Purge Queries**   Printable Copy   Create Case

Set Name	Query	Hit Count	Set Name
side by side			result set
	DB=PGPB; PLUR=YES; OP=OR		
L2	L1 and (bandwidth or (band adj1 width))	10	L2
L1	(variable near5 speed) near10 bus	65	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L4 and (adjust$3 near5 frequenc$3)	4

Database:
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US Patents Full-Text Database
US OCR Full-Text Database
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Search:
L5

[Refine Search]

[Recall Text] [Clear] [Interrupt]

Search History

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Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=YES; OP=OR			
L5	L4 and (adjust$3 near5 frequenc$3)	4	L5
L4	L3 and (bandwidth or (band adj1 width))	44	L4
L3	(variable near5 speed) near10 bus	309	L3
DB=PGPB; PLUR=YES; OP=OR			
L2	L1 and (bandwidth or (band adj1 width))	10	L2
L1	(variable near5 speed) near10 bus	65	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
(361/683 |361/684 |361/685 |361/686 |322/32 |709/233 |370/257 |710/33 |710/300 |710/307 |710/58 |710/240 |710/309 |710/15 |710/60 |710/313 |712/32 |340/825 |713/600 |713/501 |713/320 |713/322).ccls.	16192

Database:

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Search: L6

[Refine Search]

[Recall Text]   [Clear]   [Interrupt]

Search History

DATE: Thursday, January 04, 2007   **Purge Queries**   Printable Copy   Create Case

**Set
Name Query**
side by
side

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

L6   710/33,300,307,58,240,309,15,60,313;713/600,501,320,322;340/825;370/257;709/233;322/32;36 686;712/32.ccls.

L5   L4 and (adjust$3 near5 frequenc$3)

L4   L3 and (bandwidth or (band adj1 width))

L3   (variable near5 speed) near10 bus

DB=PGPB; PLUR=YES; OP=OR

L2   L1 and (bandwidth or (band adj1 width))

L1   (variable near5 speed) near10 bus

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L4 and L6	7

Database:
```
US Pre-Grant Publication Full-Text Database
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Derwent World Patents Index
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```

Search: L7

[Refine Search]

[Recall Text] [Clear] [Interrupt]

Search History

DATE: Thursday, January 04, 2007   **Purge Queries**   Printable Copy   Create Case

**Set
Name Query**
side by
side

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

L7 14 and L6

L6 710/33,300,307,58,240,309,15,60,313;713/600,501,320,322;340/825;370/257;709/233;322/32;36
686;712/32.ccls.

L5 L4 and (adjust$3 near5 frequenc$3)

L4 L3 and (bandwidth or (band adj1 width))

L3 (variable near5 speed) near10 bus

DB=PGPB; PLUR=YES; OP=OR

L2 L1 and (bandwidth or (band adj1 width))

L1 (variable near5 speed) near10 bus

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IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
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This paper appears in: Local Computer Networks, 1995., Proceedings. 20th Conference on
Publication Date: 16-19 Oct. 1995
On page(s): 174 - 183
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Location: Minneapolis, MN
INSPEC Accession Number:5211967
Digital Object Identifier: 10.1109/LCN.1995.527342
Posted online: 2002-08-06 19:55:44.0

Abstract
Multichannel optical networks promise **bandwidth** in the gigabits/sec domain. This current trend in optical device technology demands a simple yet scalable protocol for future high **speed** networks. The Request Based Channel Access (RBCA) protocol provides solution based on folded **bus** topology. RBCA protocol communication consists of two steps, namely, **bandwidth** request and data transmission. The communication is slot based and supports **variable** packet lengths. A dedicated monitor node in the network performs all protocol processing and error detection/correction functions, and minimizes all protocol overheads in nodes. The protocol provides fair channel access to all nodes, irrespective of their relative position from the fold of the network. In a multichannel network, the communication of each channel is independent of all other channels. Thus multichannel networks can be implemented as better optical communication devices, supporting large number of parallel channels, become available

Index Terms
Inspec
    Controlled Indexing
    local area networks   optical communication   protocols

    Non-controlled Indexing
    RBCA protocol   Request Based Channel Access   **bandwidth** request   channel access   protocol   data transmission   dedicated monitor node   folded **bus**   folded **bus** topology   multichannel optical networks

Author Keywords

IEEEXplore# Request based channel access protocol on folded bus topology

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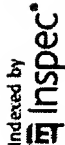
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